BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

PREMEASUREMENT

Name of work: Package - 5, Includes 3 Works of Rs. 100.00 Lakhs

Estimated Cost : Rs. 100.00 Lakhs

Job Code: 006-18-000038, 006-18-000044, 006-18-000047

Head of Account : P-3316 Special Development Works

Name of Agency: Sri B.M. Muniraju, # 432/A, Unnai Nilaya, 1st Main, 1st Cross, Shivashankara Block, Hebbal, Bangalore - 24.

Work order No: BBMP/EE/BTP/WO/217/2018-19 Dated: 25.01.2019.

Measurements Recarded on :

Sl No.	Description	No.	L	B1	B2	AV. B	D	Qty	Unit
1	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum
	CC Road								
	Baloon Factory 1st cross	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	28.00	0.60	0.60	0.60	0.60	10.08	
	Baloon Factory 2nd cross	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	25.00	0.60	0.60	0.60	0.60	9.00	
	Baloon Factory 3rd cross	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	26.00	0.60	0.60	0.60	0.60	9.36	
	Baloon Factory 4th cross	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	16.00	0.60	0.60	0.60	0.60	5.76	
	Baloon Factory 5th cross	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	14.00	0.60	0.60	0.60	0.60	5.04	
	Asphalt Road								
	ROAD 1	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	19.00	0.60	0.60	0.60	0.60	6.84	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	23.70	0.60	0.60	0.60	0.60	8.53	
	ROAD 2	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	13.20	0.60	0.60	0.60	0.60	4.75	
	ROAD 3	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	19.60	0.60	0.60	0.60	0.60	7.06	
	ROAD 4	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	11.40	0.60	0.60	0.60	0.60	4.10	
	ROAD 5	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	21.00	0.60	0.60	0.60	0.60	7.56	
	ROAD 6	1	30.00	0.60	0.60	0.60	0.60	10.80	
		1	30.00	0.60	0.60	0.60	0.60	10.80	

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Description	No.	L	B1	B2	AV. B	D	Qty	Unit
	1	30.00	0.60	0.60	0.60	0.60	10.80	
	1	30.00	0.60	0.60	0.60	0.60	10.80	
	1	30.00	0.60	0.60	0.60	0.60	10.80	
ROAD 7	1	25.00	0.60	0.60	0.60	0.60	9.00	
	1	30.00	0.60	0.60	0.60	0.60	10.80	
	1	30.00	0.60	0.60	0.60	0.60	10.80	
Cross Road	1	25.00	0.60	0.60	0.60	0.60	9.00	
	1	30.00	0.60	0.60	0.60	0.60	10.80	
	1	30.00	0.60	0.60	0.60	0.60	10.80	
	1	30.00	0.60	0.60	0.60	0.60	10.80	
	1	30.00	0.60	0.60	0.60	0.60	10.80	
Culverts	1	28.00	0.60	0.60	0.60	0.60	10.08	
near Crist School Maruthi Saw Mill Road 1st Cross	1	6.50			2.00	1.20	15.60	
	1	6.30			2.00	1.20	15.12	
	1	5.70			2.00	1.20	13.68	
	1	6.25			2.00	1.20	15.00	
	1	5.70			2.00	1.20	13.68	
near Baloon Factory	1	5.80			2.00	1.20	13.92	
	1	5.00			2.00	1.20	12.00	
	1	4.60			2.00	1.20	11.04	
						Total Qty =	594.20	
						Qty Limited to =	593.44	Cum

12/08/2019

Assistant Engineer
Ward No 06

Assistant Executive Engineer
Byatarayanapura Sub Division

Measurements Recarded on :

2	Removing B.S slab of drain and stacking etc complete as per specifications.								Sqm
	BS Slab Drain								
	Baloon Factory 1st cross	2	30.00			1.35		81.00	
		2	30.00			1.35		81.00	
		1	28.00			1.35		37.80	
	Baloon Factory 2nd cross	1	30.00			1.35		40.50	
		1	30.00			1.35		40.50	
		1	25.00			1.35		33.75	
	Baloon Factory 3rd cross	1	30.00			1.35		40.50	
		1	30.00			1.35		40.50	
		1	26.00			1.35		35.10	
	Baloon Factory 4th cross	1	30.00			1.35		40.50	
		1	30.00			1.35		40.50	
		1	16.00			1.35		21.60	
	Baloon Factory 5th cross	1	30.00			1.35		40.50	
		1	30.00			1.35		40.50	
		1	14.00			1.35		18.90	
							Total Qty =	633.15	
							Qty Limited to =	625.77	Sqm

14/08/2019

Assistant Engineer
Ward No. 06

14/8/2019

Assistant Executive Engineer
Byatarayanapura Sub Division

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Description	No.	L	B1	B2	AV. B	D	Qty	Unit
Measurements Recarded on :								
Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0 892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum
Culverts								
near Crist School Maruthi Saw Mill Road 1st Cross	1	6.50			2.00	0.15	1.95	
	1	6.30			2.00	0.15	1.89	
	1	5.70			2.00	0.15	1.71	
	1	6.25			2.00	0.15	1.88	
	1	5.70			2.00	0.15	1.71	
near Baloon Factory	1	5.80			2.00	0.15	1.74	
	1	5.00			2.00	0.15	1.50	
	1	4.60			2.00	0.15	1.38	
CC Road								
Baloon Factory 1st cross	1	30.00	5.50	5.60	5.55	0.15	24.98	
	1	30.00	5.60	5.60	5.60	0.15	25.20	
	1	28.00	5.60	5.50	5.55	0.15	23.31	
Baloon Factory 2nd cross	1	30.00	5.20	5.30	5.25	0.15	23.63	
	1	30.00	5.30	5.15	5.23	0.15	23.51	
	1	25.00	5.15	5.20	5.18	0.15	19.41	
Baloon Factory 3rd cross	1	30.00	5.20	5.10	5.15	0.15	23.18	
	1	30.00	5.10	5.20	5.15	0.15	23.18	
	1	26.00	5.20	5.10	5.15	0.15	20.09	
Baloon Factory 4th cross	1	30.00	5.10	5.10	5.10	0.15	22.95	
	1	30.00	5.10	5.20	5.15	0.15	23.18	
	1	16.00	5.20	5.30	5.25	0.20	16.80	
Baloon Factory 5th cross	1	30.00	5.00	5.00	5.00	0.15	22.50	
	1	30.00	5.00	5.10	5.05	0.15	22.73	
	1	14.00	5.10	5.00	5.05	0.15	10.61	
						Total Qty =	338.97	
						Qty Limited to =	335.78	Cum

16/08/2019

Assistant Engineer
Ward No. 06

16/8/2019

Assistant Executive Engineer
Byatarayanapura Sub Division

Scanned by CamScanner

Description	No.	L	B1	B2	AV. B	D	Qty	Unit
Measurements Recarded on :								
Excavation in Soil using Hydraulic Excavator CK 90 and Tippers with Disposal KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location and complete as per specifications. MORTH Specification No.301								Cum
ROAD 1	1	30.00	6.10	5.85	5.98	0.25	44.81	
	1	30.00	5.85	5.80	5.83	0.25	43.69	
	1	19.00	5.80	5.50	5.65	0.25	26.84	
	1	30.00	5.50	4.80	5.15	0.25	38.63	
ROAD 2	1	23.70	4.80	5.40	5.10	0.25	30.22	
	1	30.00	5.90	5.95	5.93	0.25	44.44	
	1	30.00	5.95	5.70	5.83	0.25	43.69	
ROAD 3	1	13.20	5.70	6.00	5.85	0.25	19.31	
	1	24.60	6.90	6.20	6.55	0.25	40.28	
	1	30.00	6.20	5.90	6.05	0.25	45.38	
ROAD 4	1	19.60	5.90	5.90	5.90	0.25	28.91	
	1	30.00	6.25	5.80	6.03	0.25	45.19	
	1	30.00	5.80	6.10	5.95	0.25	44.63	
	1	30.00	6.10	6.60	6.35	0.25	47.63	
	1	11.40	6.60	6.60	6.60	0.25	18.81	
ROAD 5	1	30.00	6.40	6.00	6.20	0.25	46.50	
	1	30.00	6.00	6.40	6.20	0.25	46.50	
	1	30.00	6.40	6.20	6.30	0.25	47.25	
	1	30.00	6.20	6.70	6.45	0.25	48.38	
	1	21.00	6.70	6.70	6.70	0.25	35.18	
	1	1.00	6.10	6.10	6.10	0.25	1.53	
ROAD 6	1	26.00	5.50	6.10	5.80	0.25	37.70	
	1	25.00	6.10	4.80	5.45	0.25	34.06	
	1	30.00	4.80	3.90	4.35	0.25	32.63	
	1	30.00	3.90	3.80	3.85	0.25	28.88	
	1	30.00	3.80	3.80	3.80	0.25	28.50	
	1	2.45	3.80	3.80	3.80	0.25	2.33	
ROAD 7	1	19.00	5.50	6.20	5.85	0.25	27.79	
	1	24.50	6.20	6.20	6.20	0.25	37.98	
CC Road								
Baloon Factory 1st cross	1	30.00	5.50	5.60	5.55	0.20	33.30	
	1	30.00	5.60	5.60	5.60	0.20	33.60	
	1	28.00	5.60	5.50	5.55	0.20	31.08	
Baloon Factory 2nd cross	1	30.00	5.20	5.30	5.25	0.20	31.50	
	1	30.00	5.30	5.15	5.23	0.20	31.35	
	1	25.00	5.15	5.20	5.18	0.20	25.88	
Baloon Factory 3rd cross	1	30.00	5.20	5.10	5.15	0.20	30.90	
	1	30.00	5.10	5.20	5.15	0.20	30.90	
	1	26.00	5.20	5.10	5.15	0.20	26.78	
Baloon Factory 4th cross	1	30.00	5.10	5.10	5.10	0.20	30.60	
	1	30.00	5.10	5.20	5.15	0.20	30.90	
	1	16.00	5.20	5.30	5.25	0.20	16.80	
Baloon Factory 5th cross	1	30.00	5.00	5.00	5.00	0.20	30.00	
	1	30.00	5.00	5.10	5.05	0.20	30.30	
	1	14.00	5.10	5.00	5.05	0.20	14.14	
						Total Qty =	1445.63	
						Qty Limited to =	1413.95	Cum

19/08/2019

Assistant Engineer
Ward No. 06

19/8/2019

Assistant Executive Engineer
Byatarayanapura Sub Division

Scanned by CamScanner

Description	No.	L	B1	B2	AV. B	D	Qty	Unit
Measurements Recarded on :								
Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications								Cum
ROAD 1	1	30.00	6.10	5.85	5.98	0.25	44.81	
	1	30.00	5.85	5.80	5.83	0.25	43.69	
	1	19.00	5.80	5.50	5.65	0.25	26.84	
	1	30.00	5.50	4.80	5.15	0.25	38.63	
	1	23.70	4.80	5.40	5.10	0.25	30.22	
ROAD 2	1	30.00	5.90	5.95	5.93	0.25	44.44	
	1	30.00	5.95	5.70	5.83	0.25	43.69	
	1	13.20	5.70	6.00	5.85	0.25	19.31	
ROAD 3	1	24.60	6.90	6.20	6.55	0.25	40.28	
	1	30.00	6.20	5.90	6.05	0.25	45.38	
	1	19.60	5.90	5.90	5.90	0.25	28.91	
ROAD 4	1	30.00	6.25	5.80	6.03	0.25	45.19	
	1	30.00	5.80	6.10	5.95	0.25	44.63	
	1	30.00	6.10	6.60	6.35	0.25	47.63	
	1	11.40	6.60	6.60	6.60	0.25	18.81	
ROAD 5	1	30.00	6.40	6.00	6.20	0.25	46.50	
	1	30.00	6.00	6.40	6.20	0.25	46.50	
	1	30.00	6.40	6.20	6.30	0.25	47.25	
	1	30.00	6.20	6.70	6.45	0.25	48.38	
	1	21.00	6.70	6.70	6.70	0.25	35.18	
	1	1.00	6.10	6.10	6.10	0.25	1.53	
ROAD 6	1	26.00	5.50	6.10	5.80	0.25	37.70	
	1	25.00	6.10	4.80	5.45	0.25	34.06	
	1	30.00	4.80	3.90	4.35	0.25	32.63	
	1	30.00	3.90	3.80	3.85	0.25	28.88	
	1	30.00	3.80	3.80	3.80	0.25	28.50	
	1	2.45	3.80	3.80	3.80	0.25	2.33	
ROAD 7	1	7.00	5.50	6.20	5.85	0.25	10.24	
						Total Qty =	962.08	
						Qty Limited to ≈	957.60	Cum

12/10/2019

Assistant Engineer
Ward No. 06
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12/10/2019

Assistant Executive Engineer
Byatarayanapure Sub Division
ಬ.ಬ.ಎಂ.ಪ., ಬೆಂಗಳೂರು-24

Scanned by CamScanner

Description	No.	L	B1	B2	AV. B	D	Qty	Unit
Measurements Recarded on :								
Providing and applying primer coat with S.S bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications								Sqm
ROAD 1	1	30.00	6.10	5.85	5.98		179.25	
	1	30.00	5.85	5.80	5.83		174.75	
	1	19.00	5.80	5.50	5.65		107.35	
	1	30.00	5.50	4.80	5.15		154.50	
	1	23.70	4.80	5.40	5.10		120.87	
ROAD 2	1	30.00	5.90	5.95	5.93		177.75	
	1	30.00	5.95	5.70	5.83		174.75	
	1	13.20	5.70	6.00	5.85		77.22	
ROAD 3	1	24.60	6.90	6.20	6.55		161.13	
	1	30.00	6.20	5.90	6.05		181.50	
	1	19.60	5.90	5.90	5.90		115.64	
ROAD 4	1	30.00	6.25	5.80	6.03		180.75	
	1	30.00	5.80	6.10	5.95		178.50	
	1	30.00	6.10	6.60	6.35		190.50	
	1	11.40	6.60	6.60	6.60		75.24	
ROAD 5	1	30.00	6.40	6.00	6.20		186.00	
	1	30.00	6.00	6.40	6.20		186.00	
	1	30.00	6.40	6.20	6.30		189.00	
	1	30.00	6.20	6.70	6.45		193.50	
	1	21.00	6.70	6.70	6 70		140.70	
	1	1.00	6.10	6.10	6.10		6.10	
ROAD 6	1	26.00	5.50	6.10	5.80		150.80	
	1	25.00	6.10	4.80	5.45		136.25	
	1	30.00	4.80	3.90	4.35		130.50	
	1	30.00	3.90	3.80	3.85		115.50	
	1	30.00	3.80	3.80	3.80		114.00	
	1	2.45	3.80	3.80	3.80		9.31	
ROAD 7	1	7.00	5.50	6.20	5.85		40.95	
						Total Qty =	3848.31	
						Qty Limited to =	3830.40	Sqm

30/10/2019

Assistant Engineer
Ward No: 06
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30.10.2019

Assistant Executive Engineer
Byatarayanapura Sub Division
ಬ.ಬ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-24

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